

# Refine Search

## Search Results -

Terms	Documents
L10 and L8	2

Database:

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

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JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

L11

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## Search History

DATE: Friday, April 14, 2006 [Printable Copy](#) [Create Case](#)

Set Name Query

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result set

DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR

<u>L11</u>	L10 and l8	2	<u>L11</u>
<u>L10</u>	okuda.in.	17173	<u>L10</u>
<u>L9</u>	L8 and ("position 187 serine")	0	<u>L9</u>
<u>L8</u>	L7 and ("position 346" arginine)	10976	<u>L8</u>
<u>L7</u>	L6 and ("position 16" threonine)	15725	<u>L7</u>
<u>L6</u>	L5 and (position 405 aspartic acid)	200551	<u>L6</u>
<u>L5</u>	L4 and (position 15 histidine)	215180	<u>L5</u>
<u>L4</u>	L3 and point mutation	238455	<u>L4</u>
<u>L3</u>	alkaline protease	506167	<u>L3</u>

DB=USPT; PLUR=YES; OP=OR

<u>L2</u>	5891701.pn.	1	<u>L2</u>
<u>L1</u>	6803222.pn.	1	<u>L1</u>

END OF SEARCH HISTORY

# Hit List

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 6803222 B2

Using default format because multiple data bases are involved.

L11: Entry 1 of 2

File: USPT

Oct 12, 2004

US-PAT-NO: 6803222

DOCUMENT-IDENTIFIER: US 6803222 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Alkaline proteases

DATE-ISSUED: October 12, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hatada; Yuji	Mihara			JP
Ogawa; Akinori	Tochigi			JP
Kageyama; Yasushi	Tochigi			JP
Sato; Tsuyoshi	Tochigi			JP
Araki; Hiroyuki	Tochigi			JP
Sumitomo; Nobuyuki	Tochigi			JP
Okuda; Mitsuyoshi	Tochigi			JP
Saeki; Katsuhisa	Tochigi			JP

US-CL-CURRENT: 435/212; 510/276, 510/300

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw Desc	Ima
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☐ 2. Document ID: US 3819833 A

L11: Entry 2 of 2

File: USOC

Jun 25, 1974

US-PAT-NO: 3819833

DOCUMENT-IDENTIFIER: US 3819833 A

TITLE: ANTIBIOTIC LARGOMYCIN AND A METHOD OF PRODUCING SAME BY CULTIVATING STREPTOMYCES PLURICOLORSCENS NRRL 3679

DATE-ISSUED: June 25, 1974

INVENTOR-NAME: OKUDA T; ISHIDA N

US-CL-CURRENT: 424/117, 424/115, 435/128, 435/886

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw Desc	Ima
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	-----------	-----

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#) [Generate OACS](#)

Terms	Documents
L10 and L8	2

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**Display Format:**

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NEWS	4	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS	5	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	6	JAN 17	Pre-1988 INPI data added to MARPAT
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NEWS	11	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	12	FEB 27	New STN AnaVist pricing effective March 1, 2006
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NEWS	14	FEB 28	TOXCENTER reloaded with enhancements
NEWS	15	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	16	MAR 01	INSPEC reloaded and enhanced
NEWS	17	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	18	MAR 08	X.25 communication option no longer available after June 2006
NEWS	19	MAR 22	EMBASE is now updated on a daily basis
NEWS	20	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS	21	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
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NEWS	23	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS	24	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS	25	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
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FILE 'MEDLINE' ENTERED AT 09:17:07 ON 14 APR 2006

FILE 'USPATFULL' ENTERED AT 09:17:07 ON 14 APR 2006

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=> s alkaline protease

L1 7774 ALKALINE PROTEASE

=> e okuda, m/au

E1	2	OKUDA YUYA/AU
E2	6	OKUDA YUZURU/AU
E3	0 -->	OKUDA, M/AU
E4	1	OKUDAA KATSUJI/AU
E5	1	OKUDAAIRA T/AU
E6	1	OKUDAAKABANE K/AU
E7	1	OKUDAAKABANE KAZUHIISA/AU
E8	15	OKUDAASHITAKA E/AU
E9	1	OKUDACHI MINORU/AU

E10 47 OKUDAI N/AU  
 E11 51 OKUDAI NAOMI/AU  
 E12 3 OKUDAI NAOTO/AU

=> e sato, t/au

E1 2 SATO ZIN/AU  
 E2 2 SATO ZYOUJI/AU  
 E3 0 --> SATO, T/AU  
 E4 1 SATO2 SHINSUKE/AU  
 E5 1 SATOA AKIRA/AU  
 E6 1 SATOA K/AU  
 E7 1 SATOA M/AU  
 E8 1 SATOA R N/AU  
 E9 1 SATOA Y T/AU  
 E10 1 SATOA YUKO T/AU  
 E11 1 SATOAKI M/AU  
 E12 1 SATOARAKI N/AU

=> s l1 and point mutation

L2 120 L1 AND POINT MUTATION

=> s l2 and (position 15 histidine)

L3 0 L2 AND (POSITION 15 HISTIDINE)

=> s l2 and detergent

L4 34 L2 AND DETERGENT

=> d l45 ti abs ibib 1-10

L45 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l4 ti abs ibib 1-10

L4 ANSWER 1 OF 34 USPATFULL on STM

TI Proteome epitope tags and methods of use thereof in protein modification analysis

AB Disclosed are reagents and methods for reliably detecting the presence and measuring the amount of proteins, including proteins with various post-translational modifications (phosphorylation, glycosylation, methylation, acetylation, etc.) in a sample by the use of one or more capture agents that recognize and interact with recognition sequences uniquely characteristic of a protein or a set of proteins (Proteome Epitope Tags, or PETs) in the sample. Arrays comprising these capture agents or PETs are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2006:15830 USPATFULL

TITLE: Proteome epitope tags and methods of use thereof in protein modification analysis

INVENTOR(S): Benkovic, Stephen J., State College, PA, UNITED STATES  
 Chan, John W., Research Triangle Park, NC, UNITED STATES

Lee, Frank D., Chestnut Hill, MA, UNITED STATES

Meng, Xun, Newton, MA, UNITED STATES

Gordon, Neal, Lexington, MA, UNITED STATES

PATENT ASSIGNEE(S): Epitome Biosystems, Inc., Waltham, MA, UNITED STATES  
 (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2006014212 A1 20060119

APPLICATION INFO.: US 2005-66967 A1 20050225 (11)  
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2004-773032, filed  
on 5 Feb 2004, PENDING Continuation-in-part of Ser. No.  
US 2003-712425, filed on 13 Nov 2003, PENDING  
Continuation-in-part of Ser. No. US 2003-436549, filed  
on 12 May 2003, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-379626P	20020510 (60)
	US 2002-393197P	20020701 (60)
	US 2002-393233P	20020701 (60)
	US 2002-393235P	20020701 (60)
	US 2002-393211P	20020701 (60)
	US 2002-393223P	20020701 (60)
	US 2002-393280P	20020701 (60)
	US 2002-393137P	20020701 (60)
	US 2002-430948P	20021204 (60)
	US 2002-433319P	20021213 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624, US	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	38 Drawing Page(s)	
LINE COUNT:	7086	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 2 OF 34 USPATFULL on STN

TI **Detergent** with rinse surfactant and a special alpha-amylase  
AB The present invention relates to detergents comprising (a) one or more  
non-ionic surfactants of the general Formula I: ##STR1## in which R1  
stands for a C6-24-alkyl or -alkenyl radical, each group R2 or R3 for  
defined hydrocarbon radicals and the indices w, x, y, z each stand for  
whole numbers from 1 to 6, or a surfactant system from at least one  
non-ionic surfactant F of the general Formula II: R.sup.1--  
CH(OH)CH.sub.2O-(AO).sub.w-(A'O).sub.1 -(A"O).sub.y-(A'"O).sub.z--  
R.sup.2 (II) and at least one non-ionic surfactant G of the general  
Formula III: R.sup.1--O--(AO).sub.w-(A'O).sub.x-(A"O).sub.y-  
(A"O).sub.z--R.sup.2 (III),

In which R.sup.1 stands for a C.sub.6-24-alkyl- or -alkenyl radical,  
R.sup.2 for a hydrocarbon radical with 2 to 26 carbon atoms, A, A', A"  
und A'" each for defined hydrocarbon radicals and w, x, y and z each  
stand for values up to 25, wherein this surfactant system comprises the  
surfactants F and G in a weight ratio between 1:4 and 100:1, and (b) an  
 $\alpha$ -amylase according to SEQ ID NO. 1 or SEQ ID NO. 2, together with  
corresponding cleaning processes and application possibilities.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:299490 USPATFULL  
TITLE: **Detergent** with rinse surfactant and a special  
alpha-amylase  
INVENTOR(S): Kottwitz, Beatrix, Erkrath, GERMANY, FEDERAL REPUBLIC  
OF  
Pegelow, Ulrich, Duesseldorf, GERMANY, FEDERAL REPUBLIC  
OF  
PATENT ASSIGNEE(S): Henkel Kommanditgesellschaft auf Aktien, Duesseldorf,  
GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2005261158 A1 20051124  
APPLICATION INFO.: US 2005-113775 A1 20050425 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	DE	20041004
	DE	20040427
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, PHILADELPHIA, PA, 19103, US	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	3135	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 34 USPATFULL on STN

TI **Detergent** with sulfo-polymer rinse aid and a special alpha amylase

AB The present invention relates to detergents comprising a copolymer of (i) unsaturated carboxylic acids, (ii) monomers comprising sulfonic acid groups and (iii) optional further ionic or non-ionogenic monomers and an  $\alpha$ -amylase according to SEQ ID NO. 1 or SEQ ID NO. 2 as well as corresponding cleaning processes and application possibilities.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:299488 USPATFULL  
TITLE: **Detergent** with sulfo-polymer rinse aid and a special alpha amylase  
INVENTOR(S): Kottwitz, Beatrix, Erkrath, GERMANY, FEDERAL REPUBLIC OF  
Pegelow, Ulrich, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF  
PATENT ASSIGNEE(S): Henkel Kommanditgesellschaft auf Aktien, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005261156	A1	20051124
APPLICATION INFO.:	US 2005-113799	A1	20050425 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	DE	20041004
	DE	20040427
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, PHILADELPHIA, PA, 19103, US	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	2689	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 34 USPATFULL on STN

TI Novel fungal proteins and nucleic acids encoding same

AB Disclosed herein are fungal nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The novel leucine aminopeptidase (LAP) and other amino- and



carboxypeptidases polypeptides, referred to herein as EXOX nucleic acids and proteins of the invention are useful in a variety of medical, research, and commercial applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:182915 USPATFULL  
TITLE: Novel fungal proteins and nucleic acids encoding same  
INVENTOR(S): Monod, Michel, Lausanne, SWITZERLAND  
Stocklin, Reto, Geneva, SWITZERLAND  
Grouzmann, Eric, La Conversion, SWITZERLAND

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005158298	A1	20050721
APPLICATION INFO.:	US 2004-926188	A1	20040825 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-498318P	20030825 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C., ONE FINANCIAL CENTER, BOSTON, MA, 02111, US	
NUMBER OF CLAIMS:	66	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Page(s)	
LINE COUNT:	6647	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 34 USPATFULL on STN

TI **Alkaline protease** from bacillus gibsonii (DSM 14393)  
and washing and cleaning products comprising said **alkaline  
protease**

AB Described herein are novel alkaline proteases of the subtilisin type  
from Bacillus gibsonii (DSM 14393), and sufficiently related proteins  
and derivatives thereof. Also described are washing and cleaning  
products with this novel **alkaline protease** of the  
subtilisin type, sufficiently related proteins and derivatives thereof,  
corresponding washing and cleaning methods and the use thereof in  
washing and cleaning products and further possible technical use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:131809 USPATFULL  
TITLE: **Alkaline protease** from bacillus  
gibsonii (DSM 14393) and washing and cleaning products  
comprising said **alkaline protease**  
INVENTOR(S): Weber, Anarit, Sankt Augustin, GERMANY, FEDERAL  
REPUBLIC OF  
Hellebrandt, Angela, Koeln, GERMANY, FEDERAL REPUBLIC  
OF  
Wieland, Susanne, Zons, GERMANY, FEDERAL REPUBLIC OF  
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC  
OF  
Kottwitz, Beatrix, Erkrath, GERMANY, FEDERAL REPUBLIC  
OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005113273	A1	20050526
APPLICATION INFO.:	US 2004-872162	A1	20040618 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2002-EP14099, filed on 12 Dec 2002, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-162728	20011220
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, PHILADELPHIA, PA, 19103, US	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	4079	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 6 OF 34 USPATFULL on STN

TI Proteome epitope tags and methods of use thereof in protein modification analysis

AB Disclosed are methods for reliably detecting the presence of proteins, including proteins with various post-translational modifications (phosphorylation, glycosylation, methylation, acetylation, etc.) in a sample by the use of one or more capture agents that recognize and interact with recognition sequences uniquely characteristic of a protein or a set of proteins (Proteome Epitope Tags, or PETs) in the sample. Arrays comprising these capture agents or PETs are also provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:81469 USPATFULL  
 TITLE: Proteome epitope tags and methods of use thereof in protein modification analysis  
 INVENTOR(S): Lee, Frank D., Chestnut Hill, MA, UNITED STATES  
 Meng, Xun, Newton, MA, UNITED STATES  
 Afeyan, Noubar B., Lexington, MA, UNITED STATES  
 PATENT ASSIGNEE(S): engeneOS, Inc., Waltham, MA (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005069911	A1	20050331
APPLICATION INFO.:	US 2004-773032	A1	20040205 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2003-712425, filed on 13 Nov 2003, PENDING Continuation-in-part of Ser. No. US 2003-436549, filed on 12 May 2003, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-379626P	20020510 (60)
	US 2002-393197P	20020701 (60)
	US 2002-393233P	20020701 (60)
	US 2002-393235P	20020701 (60)
	US 2002-393211P	20020701 (60)
	US 2002-393223P	20020701 (60)
	US 2002-393280P	20020701 (60)
	US 2002-393137P	20020701 (60)
	US 2002-430948P	20021204 (60)
	US 2002-433319P	20021213 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624	
NUMBER OF CLAIMS:	41	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	24 Drawing Page(s)	
LINE COUNT:	12020	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 7 OF 34 USPATFULL on STN  
TI **Alkaline protease** from Bacillus sp. (DSM 14392) and washing and cleaning products comprising said **alkaline protease**  
AB The invention relates to a novel **alkaline protease** of the subtilisin type from Bacillus sp. (DSM 14392) and various related proteins and derivatives thereof. The invention further relates to washing and cleaning agents comprising said novel alkaline proteases of the subtilisin type, various related proteins and derivatives thereof and corresponding washing and cleaning methods and use thereof in washing and cleaning agents and further technical applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:50399 USPATFULL  
TITLE: **Alkaline protease** from Bacillus sp. (DSM 14392) and washing and cleaning products comprising said **alkaline protease**  
INVENTOR(S): Weber, Angrit, Sankt Augustin, GERMANY, FEDERAL REPUBLIC OF  
Hellebrandt, Angela, Koln, GERMANY, FEDERAL REPUBLIC OF  
Wieland, Susanne, Zons, GERMANY, FEDERAL REPUBLIC OF  
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC OF  
Kottwitz, Beatrix, Erkrath, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005043198	A1	20050224
APPLICATION INFO.:	US 2004-873610	A1	20040622 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2002-EP14132, filed on 12 Dec 2002, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-DE163884	20011222
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Angela Verrecchio, WOODCOCK WASHBURN LLP, 46th Floor, One Liberty Place, Philadelphia, PA, 19103	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	4056	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 34 USPATFULL on STN  
TI Novel **alkaline protease** variants and detergents and cleaning agents containing said novel **alkaline protease** variants  
AB Described herein are novel **alkaline protease** variants derived from subtilisin. These variants have, with respect to the amino acid sequence of Bacillus lentus subtilisin, variations at amino acid positions 199 and 211, and at least one modification that contributes to the stabilization of the molecule, the modification preferably being variations at amino acid positions 3 and/or 4. Preferably, the variant is B. lentus **alkaline protease** S3T/NV4I/V199I/L211G. Also described are detergents and cleaning agents comprising the novel **alkaline protease** variants. Methods of use employing the novel **alkaline protease** variants are also described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:30838 USPATFULL  
TITLE: Novel **alkaline protease** variants  
and detergents and cleaning agents containing said  
novel **alkaline protease** variants  
INVENTOR(S): Kottwitz, Beatrix, Dusseldorf, GERMANY, FEDERAL  
REPUBLIC OF  
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC  
OF  
Breves, Roland, Mettmann, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005026269	A1	20050203
APPLICATION INFO.:	US 2004-476463	A1	20040716 (10)
	WO 2002-EP4489		20020424

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-1214634	20010502
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, 1650 MARKET STREET, PHILADELPHIA, PA, 19103	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	CLM-01-35	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	3473	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 9 OF 34 USPATFULL on STN

TI **Alkaline protease** from Bacillus sp. (DSM 14390) and  
washing and cleaning products comprising said **alkaline  
protease**

AB Described herein is a novel **alkaline protease** of the  
subtilisin type from Bacillus sp. (DSM 14390), and sufficiently related  
proteins and derivatives thereof. Also described are washing and  
cleaning products with this novel **alkaline protease**  
of the subtilisin type, sufficiently related proteins and derivatives  
thereof, corresponding washing and cleaning methods and the use thereof  
in washing and cleaning products, as well as further possible technical  
uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:11033 USPATFULL  
TITLE: **Alkaline protease** from Bacillus sp.  
(DSM 14390) and washing and cleaning products  
comprising said **alkaline protease**  
INVENTOR(S): Weber, Angrit, Sankt Augustin, GERMANY, FEDERAL  
REPUBLIC OF  
Hellebrandt, Angela, Koln, GERMANY, FEDERAL REPUBLIC OF  
Wieland, Susanne, Zons, GERMANY, FEDERAL REPUBLIC OF  
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC  
OF  
Kottwitz, Beatrix, Erkrath, GERMANY, FEDERAL REPUBLIC  
OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005009167	A1	20050113
APPLICATION INFO.:	US 2004-873917	A1	20040622 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2002-EP14129, filed on 12 Dec 2002, UNKNOWN		

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 2001-DE163883	20011222
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, PHILADELPHIA, PA, 19103	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	4135	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L4 ANSWER 10 OF 34 USPATFULL on STN

TI **Alkaline protease** variants

AB The invention relates to novel **alkaline protease** variants. These variants have, when enumerating the **alkaline protease** from *Bacillus lentus*, variations in amino acid position 61, positions 199 and/or 211 and, optionally, at least one modification that contributes to the stabilization of the molecule, said modification preferably being point mutations in positions 3 and/or 4. Particularly preferred are variants S3T/V41/G61A/V199] and S3T/V41/G61A/V1991/L211D of *B. lentus* **alkaline protease**. The invention also relates to the possible use of these enzymes in diverse technical processes and, in particular, to detergents and cleansers containing these novel **alkaline protease** variants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:4880 USPATFULL  
 TITLE: **Alkaline protease** variants  
 INVENTOR(S): Kottwitz, Beatrix, Erkrath, GERMANY, FEDERAL REPUBLIC OF  
 Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC OF  
 Breves, Roland, Mettmann, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2005003985	A1	20050106
APPLICATION INFO.:	US 2004-836959	A1	20040430 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2002-EP11725, filed on 19 Oct 2002, UNKNOWN		

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 2001-DE153792	20011031
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	WOODCOCK WASHBURN LLP, ONE LIBERTY PLACE, 46TH FLOOR, PHILADELPHIA, PA, 19103	
NUMBER OF CLAIMS:	32	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	4187	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		